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ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
L8
ΑN
     1999:380714 CAPLUS
DN
     131:60091
     Entered STN: 21 Jun 1999
ED
     Primer compositions, film formation and corrosion- and scratch-resistant
ΤI
     pre-coated metals therefrom
     Ohgami, Toshihiko; Okai, Toshihiro; Takeichi, Hisashi; Tozaki, Yoichi
IN
PΑ
     Nippon Paint Co., Ltd., Japan
     Jpn. Kokai Tokkyo Koho, 13 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
IC
     ICM C09D201-00
         B05D001-36; B05D007-14; C09D005-00; C09D005-08; C09D007-12;
          C09D161-20; C09D175-04; C08G018-80
     42-10 (Coatings, Inks, and Related Products)
CC
     Section cross-reference(s): 55, 56
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
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                                           ______
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                               19990615
                                           JP 1997-328576
                                                                  19971128 <--
PΙ
     JP 11158436
                         A2
PRAI JP 1997-328576
                               19971128
CLASS
 PATENT NO.
                CLASS PATENT FAMILY CLASSIFICATION CODES
 _____
                       _____
                ICM
 JP 11158436
                       C09D201-00
                       B05D001-36; B05D007-14; C09D005-00; C09D005-08;
                ICS
                        C09D007-12; C09D161-20; C09D175-04; C08G018-80
     Title compns. comprise 100 parts polymers consisting of 100:10-100
AB
     film-forming resins and aminoplasts and/or blocked polyisocyanates, 1-150
     parts chromate-based anticorrosive pigments, 0.5-100 parts phosphite
     salt-based anticorrosive pigments, and 0.1-50 parts anion- or
     cation-exchanged inorg. powders. An Al/Zn alloy-plated steel plate was
     primed with a composition containing Vylon 300 100, Sumimal M 40S 20, a
sulfonic
     acid catalyst 0.5, Sr chromate 80, Expert NP 1020C (Zn Ca phosphite) 10,
     TiO2 30, and Na3VO4-treated DHT-4 10 parts to a 6-μm thickness and
     coated with a polyester to form a pre-coated plate showing good
     anticorrosion at edges and cut areas and scratch resistance.
ST
     anticorrosion edge precoated metal primer compn; scratch resistance
     precoated metal primer compn; primer chromate phosphite pigment precoated
     metal; ion exchanged inorg filler primer precoated metal
IT
     Nepheline syenite
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
        (Minex 7, filler; chromate and phosphite pigment- and ion-exchanged
        inorg. filler-containing primers for formation of pre-coated metals)
IT
     Primers (paints)
        (anticorrosive; chromate and phosphite pigment- and ion-exchanged
        inorg. filler-containing primers for formation of pre-coated metals)
IT
     Chromates
     Phosphites
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
IT
     Aminoplasts
     RL: POF (Polymer in formulation); TEM (Technical or engineered material
     use); USES (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
IT
     Epoxy resins, uses
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RL: POF (Polymer in formulation); TEM (Technical or engineered material
    use); USES (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
IT
     Polyesters, uses
     RL: POF (Polymer in formulation); TEM (Technical or engineered material
     use); USES (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg, filler-containing
        primers for formation of pre-coated metals)
IT
     Acrylic polymers, uses
     Clays, uses
     Diatomite
     Fluoropolymers, uses
     Glass fibers, uses
     Kaolin, uses
     Mica-group minerals, uses
     Phenolic resins, uses
     Polyamides, uses
     Polyolefins
     Polysiloxanes, uses
     Polyurethanes, uses
     Silicates, uses
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
     (Uses)
        (filler; chromate and phosphite pigment- and ion-exchanged inorg.
        filler-containing primers for formation of pre-coated metals)
IT
        (ion-exchanged; chromate and phosphite pigment- and ion-exchanged
        inorg. filler-containing primers for formation of pre-coated metals)
TT
     Galvanized steel
     Metals, miscellaneous
     RL: MSC (Miscellaneous)
        (substrates; chromate and phosphite pigment- and ion-exchanged inorg.
        filler-containing primers for formation of pre-coated metals)
TT
     25035-04-5, Nylon 11
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
        (Orgasol 2002EXG, filler; chromate and phosphite pigment- and
        ion-exchanged inorg. filler-containing primers for formation of pre-coated
        metals)
TT
     227605-13-2, Shieldex CP 4-7394
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); POF (Polymer in formulation); PROC (Process); USES (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
IT
     7789-06-2, Strontium chromate
                                     136879-28-2
                                                  227605-52-9, Expert NP
     1020C-N1
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
     (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
                                25068-38-6, Epo Tohto YD 7020
IT
     9003-08-1, Sumimal M 40S
                                                                 29294-36-8,
                 227471-05-8, Coronate 2536-Epo Tohto YD 7020 copolymer
     Vylon 300
     RL: POF (Polymer in formulation); TEM (Technical or engineered material
     use); USES (Uses)
        (chromate and phosphite pigment- and ion-exchanged inorg. filler-containing
        primers for formation of pre-coated metals)
TΤ
     471-34-1, Calcium carbonate, uses 1313-13-9, Manganese dioxide, uses
     1332-37-2, Iron oxide, uses
                                   1344-95-2, Calcium silicate
                                                                 7631-86-9,
                   7727-43-7, Barium sulfate 9004-34-6, Cellulose, uses
     Silica, uses
     13397-24-5, Gypsum, uses
                               14807-96-6, Talc, uses
                                                        14808-60-7, Quartz,
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
     (Uses)
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filler-containing primers for formation of pre-coated metals)
     7429-90-5, Aluminum, uses
IT
    RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
     (Uses)
        (flake, filler; chromate and phosphite pigment- and ion-exchanged
        inorg. filler-containing primers for formation of pre-coated metals)
     7632-00-0, Sodium nitrite 13721-39-6, Trisodium vanadate
IT
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); POF (Polymer in formulation); PROC (Process); USES (Uses)
        (hydrotalcite treated with; chromate and phosphite pigment- and
        ion-exchanged inorg. filler-containing primers for formation of pre-coated
        metals)
     69048-27-7, DHT-4
IT
     RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
     process); POF (Polymer in formulation); PROC (Process); USES (Uses)
        (ion-exchanged; chromate and phosphite pigment- and ion-exchanged
        inorg. filler-containing primers for formation of pre-coated metals)
IT
     28962-53-0
     RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES
     (Uses)
        (pigment; chromate and phosphite pigment- and ion-exchanged inorg.
        filler-containing primers for formation of pre-coated metals)
IT
     11149-84-1
     RL: MSC (Miscellaneous)
        (platings, on steel, substrates; chromate and phosphite pigment- and
        ion-exchanged inorg. filler-containing primers for formation of pre-coated
        metals)
     12597-68-1, Stainless steel, miscellaneous
IT
     RL: MSC (Miscellaneous)
        (substrates; chromate and phosphite pigment- and ion-exchanged inorg.
        filler-containing primers for formation of pre-coated metals)
ŔŊ
     25035-04-5
RN
     227605-13-2
RN
     7789-06-2
RN
     136879-28-2
RN
     227605-52-9
RN
     9003-08-1
RN
     25068-38-6
RN
     29294-36-8
RN
     227471-05-8
RN
     471-34-1
RN
     1313-13-9
RN
     1332-37-2
RN
     1344-95-2
RN
     7631-86-9
RN
     7727-43-7
RN
     9004-34-6
RN
     13397-24-5
RN
     14807-96-6
RN
     14808-60-7
RN
     7429-90-5
RN
     7632-00-0
RN
     13721-39-6
RN
     69048-27-7
RN
     28962-53-0
RN
     11149-84-1
RN
     12597-68-1
     ANSWER 2 OF 3 WPIX - COPYRIGHT 2005 THE THOMSON CORP on STN
1.8
     1999-400368 [34]
AN
                        WPIX
DNN N1999-299572
                        DNC C1999-118438
TI
     Primer composition for precoated metals, coat formation and coated
     articles - comprises film forming resin, curative, chromate anticorrosive
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(filler; chromate and phosphite pigment- and ion-exchanged inorg.

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paint, phosphite anticorrosive paint and ion exchanger inorganic powder.
     A21 A23 A82 G02 M13 P42
DC
PA
     (NIPA) NIPPON PAINT CO LTD
CYC
                      A 19990615 (199934)*
     JP 11158436
                                                   13
                                                         C09D201-00
ΡI
     JP 11158436 A JP 1997-328576 19971128
ADT
PRAI JP 1997-328576
                           19971128
IC
     ICM C09D201-00
     ICS B05D001-36; B05D007-14; C09D005-00; C09D005-08; C09D007-12;
          C09D161-20; C09D175-04
TCA
     C08G018-80
     JP 11158436 A UPAB: 19990825
AB
     Primer compsn. for precoated metals is produced by mixing a curable resin compsn. consisting of (a) a film-formable resin and (b) 10-100 pts.weight per
     100 pts.weight solid of the film- formable resin of a curative made up of an
     amino resin and/or a blocked isocyanato cpd. with (c) 1-150 pts.weight of at
     least one chromate anticorrosive paint, (d) 0.5-100 pts.weight of an
     anticorrosive paint consisting mainly of phosphite powder and (e) 0.1-50
     pts.weight of an ion exchanger inorganic powder with the anions or cations
     ion-exchanged per 100 pts.weight solid of the curable resin compsn.
           USE - For galvanised sheet steel, Al/Zn alloy-plated sheet steel,
     Zn/Al alloy-plated sheet steel, Zn/Fe alloy-plated sheet steel, Al-plated
     sheet steel, Al plate and stainless steel sheets.
           ADVANTAGE - The primer compsns. can increase anticorrosive properties
     at ends, cut portions and processed portions of precoated metals and can
     give precoated metals with excellent scratch resistance.
     Dwg.0/0
     CPI GMPI
FS
FA
     AΒ
MC
     CPI: A05-B01; A08-D04A; A12-B04C; G02-A05E; M13-H05
     ANSWER 3 OF 3 JAPIO (C) 2005 JPO on STN
L8
ΑN
     1999-158436
                     JAPIO
ΤI
     PRIMER COMPOSITION FOR PRECOATED METAL, METHOD FOR FORMING COATING FILM,
     AND COATED OBJECT
IN
     OGAMI TOSHIHIKO; OKAI TOSHIHIRO; TAKEICHI HISASHI; TOZAKI YOICHI
PA
     NIPPON PAINT CO LTD
     JP 11158436 A 19990615 Heisei
PΙ
     JP 1997-328576 (JP09328576 Heisei) 19971128
ΑI
PRAI JP 1997-328576
                          19971128
SO
     PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1999
IC
     ICM C09D201-00
         B05D001-36; B05D007-14; C09D005-00; C09D005-08; C09D007-12;
     ICS
          C09D161-20; C09D175-04
ICA
     C08G018-80
ΔR
     PROBLEM TO BE SOLVED: To obtain a primer composition which can give a
     precoated metal improve in anticorrosiveness in an edge, a cut part and a
     processed part and being excellent in scratch resistance.

SOLUTION: 100 pts weight (in terms of the solids content) curable resin composition containing a film-forming resin (a) and a curing agent (b)
     comprising 10-100 pts.weight, per 100 pts.weight (in terms of the solid
content)
     above film-forming resin, amino resin and/or blocked isocyanate is
     incorporated with 1-150 pts.weight at least one chromate rust-preventive
     pigment (c), 0.5-100 pts.weight rust-preventive pigment based on a phosphite
     powder (d), and 0.1-50 pts.weight ion exchanger inorganic powder whose anions
     or cations are ion-exchanged (e). To further improve the scratch
     resistance, the composition may further contain 1-30 pts.weight inorganic
     substance particles and/or 0.5-10 pts.weight organic polymer particles (f).
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